

EXPLORATORY DEVELOPMENT LABORATORY BRANCH
ACTIVITY REPORT FOR FEBRUARY 1964Branch T/O -

50X1

On Duty -

Volunteer Overtime - 11 hours

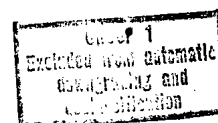
The evaluation of the laboratory's sensitometry-processing-densitometry system was completed. A final report is now in preparation and should be completed by the end of March. The investigation pointed out deficiencies in some of the equipment which are presently being remedied. Using the present equipment, studies were also carried out, in support of the investigation of optical change detection, dealing with the sensitometry of photographic glass plates. These will be completed by the end of March, and will furnish information necessary to photograph test objects for use in evaluation of the change detection scheme.

To furnish beam splitters of high quality for use on one of the lab's projects, a trip was made to Fort Belvoir where metallic-evaporating equipment was placed at our disposal. Several good beam splitters were made, in return for which we provided some assistance in setting up and adjusting some of their vacuum equipment.

The Kodak Model III microdensitometer was repaired and placed in operation. Approximately one week was spent in ascertaining its operating characteristics, and in calibrating and adjustment. The equipment is now ready for the edge trace studies initially contemplated for it, as well as for any work requiring such precision analysis.

The Spatial Filtering Image Viewer was received from the Itak Corporation and has been installed in the clean area. Since the shipment was only partial, it has not been possible to align, calibrate, and test the equipment as yet. The manufacturer has been notified. It is expected that the missing items will be furnished shortly, and that the equipment will be fully operational by the end of March.

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SUBJECT: Activity Report for EDL Branch (Feb. 64)

Two trips, of one man-day each, were made during the month. One trip was to Data Corporation, Dayton, Ohio and was concerned with procurement of resolution targets of an advanced nature. The other was to Ealing Corporation in Cambridge, Mass. It concerned the precision bench presently installed in the clean area, and a new item of equipment which Ealing plans to market shortly; a device for modulation transfer determinations on lenses.

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